



IFW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re application of: Christine Ann Scales and Pierre Simon Joseph Berini

Serial No: 10/791,855

Art Unit: 2811

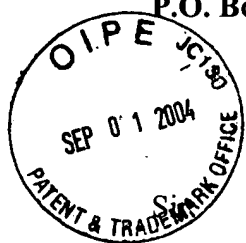
Filed: March 4, 2004

Examiner: N/A

Subject: Schottky Barrier Photodetectors

THE COMMISSIONER OF PATENTS AND TRADEMARKS

P.O. Box 1450, Alexandria, VA 22313-1450, U.S.A.



INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR 1.97(b)

To comply with applicants' duty of disclosure under 37 CFR 1.56, Form PTO-1449, listing documents known to applicant, is submitted herewith.

- ☒ Copies of the non US documents are enclosed.
- ☐ This is a continuing application and copies of the documents were submitted in respect of the parent application No. ....

**Relevance of information not in English - 37 CFR 1.98(a)(3)**

- ☐ To comply with 37 CFR 1.98(a)(3), EITHER a copy of US patent number ..... is submitted herewith, such US patent being cited in a family of patents corresponding to ..... patent number ..... listed in the form PTO 1449. OR an English language abstract is appended to ... patent No. .... (document AX)
- ☐ Document # discloses
- ☐ The relevance of .... is discussed in the specification.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application. Applicant does not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* prior art reference against the claims of the present application.

Applicant respectfully requests that the listed documents be considered by the Examiner and be made of record in the present application and that an initialled copy of form PTO-1449 be returned in accordance with MPEP Sec. 609.

The Commissioner is hereby authorized to charge any fee required to Deposit Account No. 20-0771.

Respectfully submitted

THOMAS ADAMS  
Reg. No. 31078

DATE: August 27, 2004

Adams Patent & Trademark Agency  
P.O. Box 11100, Station H  
Ottawa, Ontario  
Canada. K2H 7T8  
Phone: (613) 254 9111

Docket No. AP973US  
Customer No. 33361

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute Form 1449/PTO

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 2

## **Complete if Known**

Application Number	10/791,855
Filing Date	March 4, 2004
First Named Inventor	Christine Ann Scales
Art Unit	2811
Examiner Name	
Attorney Docket Number	AP973US

## **U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	US- 4,531,055	07-23-1985	Shepard et al.	
	2	US- 4,533,933	08-06-1985	Pellegrini et al.	
	3	US- 4,876,586	10-24-1989	Dyck et al.	
	4	US- 4,394,571	07-19-1983	Jurisson	
	5	US- 5,685,919	11-11-1997	Saito et al.	
	6	US- 5,625,729	08-29-1997	Brown	
	7	US- 4,857,973	08-15-1989	Yang et al.	
	8	US- 6,442,321	08-27-2002	Berini	
	9	US- 4,544,939	11-26-1985	Kosonocky et al.	
	10	US- 4,908,686	03-13-1990	Maserjian	
	11	US- 5,648,297	07-15-1997	Lin et al.	
	12	US- 2004/0081398 A1	04-29-2004	Jette et al.	
	13	US- 6,178,275	01-23-2001	Nerses et al.	
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

## **FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
	14	GB 2 186 144	08-05-1987	PA Consulting S		

Examiner  
Signature

Date  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND

TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>		<b>Complete if Known</b>	
		Application Number	10/791,855
		Filing Date	March 4, 2004
		First Named Inventor	Christine Ann Scales
		Art Unit	2811
		Examiner Name	
Sheet 2	of 2	Attorney Docket Number	AP973US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	15	ELABD et al. "Theory and Measurements of Photoresponse for Thin Film Pd2Si and PtSi Infrared Schottky-Barrier Detectors With Optical Cavity," RCA Review 43, pp. 569-589, 1982	
	16	MERCER et al. "A Diffusion Model for the Internal Photoresponse of PtSi/p-Si Schottky Barrier Diodes," J. Appl. Phys. 65 (12), 15, June 1989, pp 5035-5042	
	17	S. M. SZE, Physics of Semiconductor Devices, 2nd ed. Wiley, New York, 1981, p.262 and 291-292.	
	18	DUBOZ et al. "Hot-electron Transport in Epitaxial CoSi2 Films," Physical Review B, Vol. 44, No. 15, 15 October 1991, pp 8061-8067	
	19	WU et al. "Optical Properties of Epitaxial CoSi2/Si and CoSi2 Particles in Si from 0.062 to 2.76 eV," J. Appl. Phys. 71 (11), 1 June 1992, pp5601-5605.	
	20	QUINN "Range of Excited Electrons in Metals," Physical Review Vol. 126, No. 4, May 15, 1962, pp 1453-1457.	
	21	E. D. PALIK, Handbook of Optical Constants of Solids, Academic Press, Inc., Orlando, 1985.	
	22	CHARBONNEAU et al. "Experimental Observation of Plasmon-Politron Waves Supported by a Thin Metal Film of Finite Width," vol. 25, no. 11, 2000, Optics Letters, pp. 844-846.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.